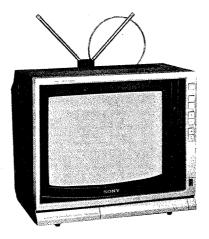
SERVICE MANUAL

E Model Chassis No. SCC-470F-A



P2chassis

May, 1983

SPECIFICATIONS

Also refer to ADJUSTMENT MANUAL.

Television system Channel coverage American TV standards VHF channels 2-13 UHF channels 14-83 Trinitron tube

Picture tube

16-inch picture tube measured diagonally

90-degree deflection

Antenna

VHF telescopic dipole antenna 75-ohm VHF antenna terminal 300-ohm UHF antenna terminal

Speaker

Approx. 8×12 cm ($3^{1}/8 \times 4^{3}/4$ inches) 110-240 V ac, 50/60 Hz

Power requirements Power consumption

98 W (max.) 73 W (average)

Dimensions

Approx. $430 \times 377.5 \times 423 \text{ mm (w/h/d)}$

 $(17 \times 14^7/8 \times 16^3/4 \text{ inches})$ Approx. 15.1 kg. (33 lb 5 oz)

Weight

Accessories supplied Remote Commander RM-712 (1)

Earphone (1)

Channel number segments (1 set)

AC plug adaptor



TRINITRON® COLOR TV SONY



WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

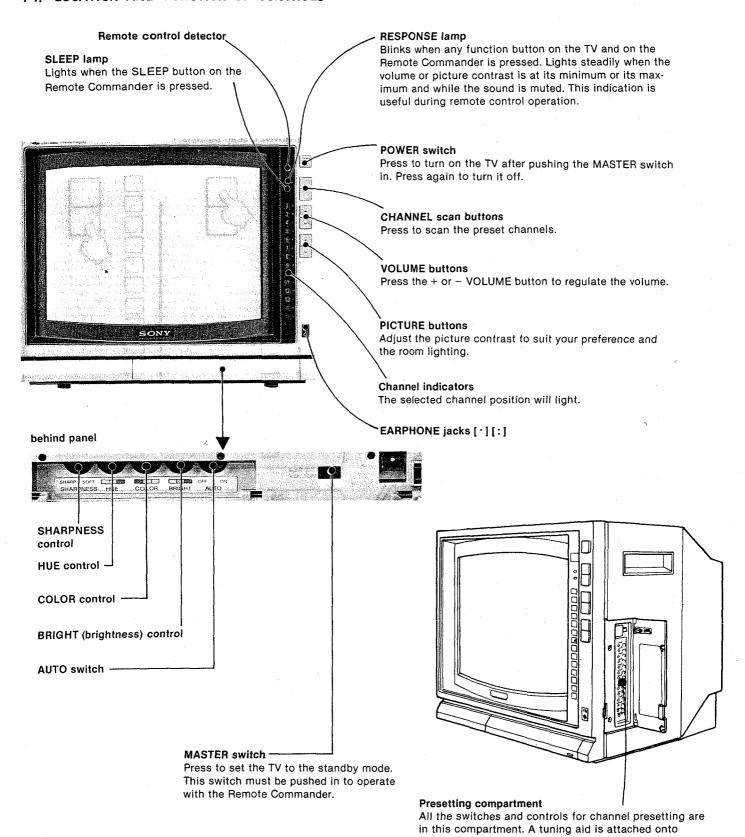
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK

NON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS
THAT ARE CRITICAL TO SAFE OPERATION ARE
IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE
REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1 GENERAL

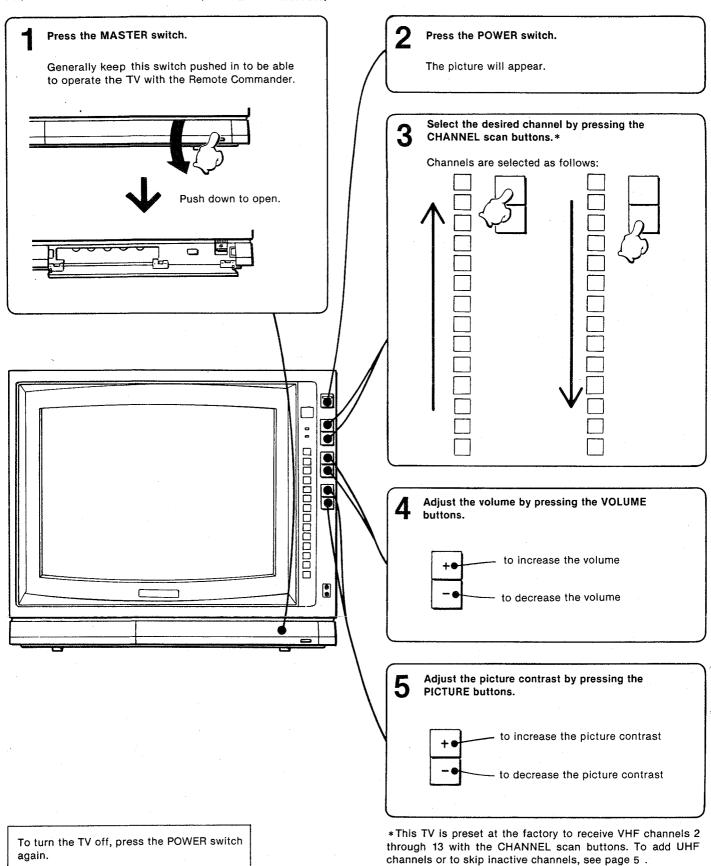
1-1, LOCATION AND FUNCTION OF CONTROLS



see page 5..

the panel for your convenience. For the presetting procedure,

1-2. NORMAL TV OPERATION (PANEL OPERATION)

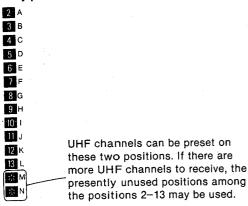


1-3. CHANNEL PRESETTING

Your Sony TV has been factory-preadjusted to receive VHF channels 2 through 13 in sequence when you press the CHANNEL scan buttons. You can add any receivable UHF channels and cancel any inactive VHF channels, so that only the channels available in your area will be scanned.

To check each channel and its program, refer to a newspaper or TV program listings.

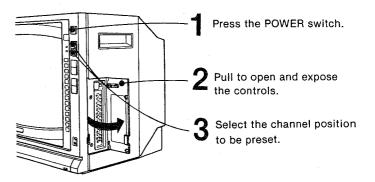
Factory preset

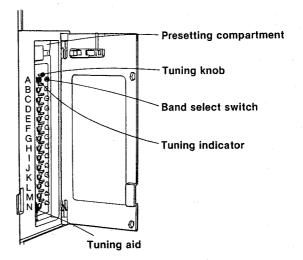


Notes

- If you own a video cassette recorder, we recommend that you not reset channel 3 or 4 whichever is inactive in your area but use it to receive signals from the video cassette recorder.
- To use your TV set with a cable television system, contact a representative of the cable company for instructions regarding channel selection.

PRESETTING PROCEDURE





Using the supplied tuning aid, set the band select switch having the same letter as the selected channel to one of these three positions:

VHF 2 through 6 channels set to VL VHF 7 through 13 channels ... set to VH UHF 14 through 83 channels .. set to U

Turn the tuning knob until the desired station is properly tuned in.
The tuning indicator provides a visual indication of the approximate location you are tuned to within the selected band.

towards L for lower-numbered channels towards H for higher-numbered channels

Repeat steps 3 through 5 for all the channel positions to be preset.

TO CANCEL INACTIVE CHANNELS

To cancel an inactive channel, turn the corresponding tuning knob until the tuning indicator points directly up.



Close the compartment lid in order to activate the AFT (Automatic Fine Tuning) switch.

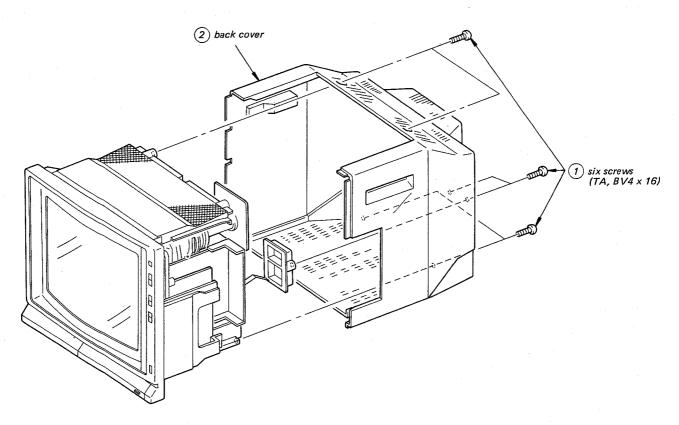
When you press the CHANNEL scan buttons these unused channels will be skipped.

To again preset the cancelled channel, follow the presetting procedure.

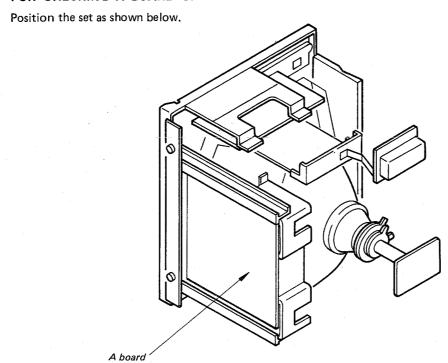
SECTION 2 DISASSEMBLY (AND REPLACEMENT)

2-1. BACK COVER REMOVAL

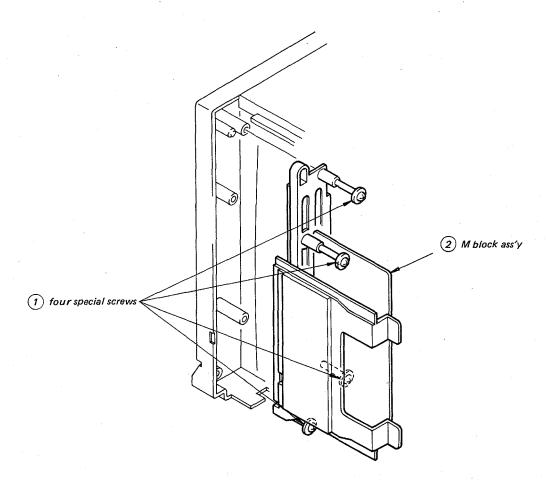
Note: Follow the disassembly procedure in the numerical order given.



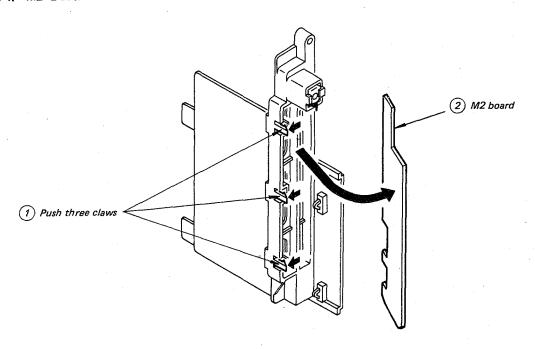
2-2. FOR CHECKING A BOARD UP



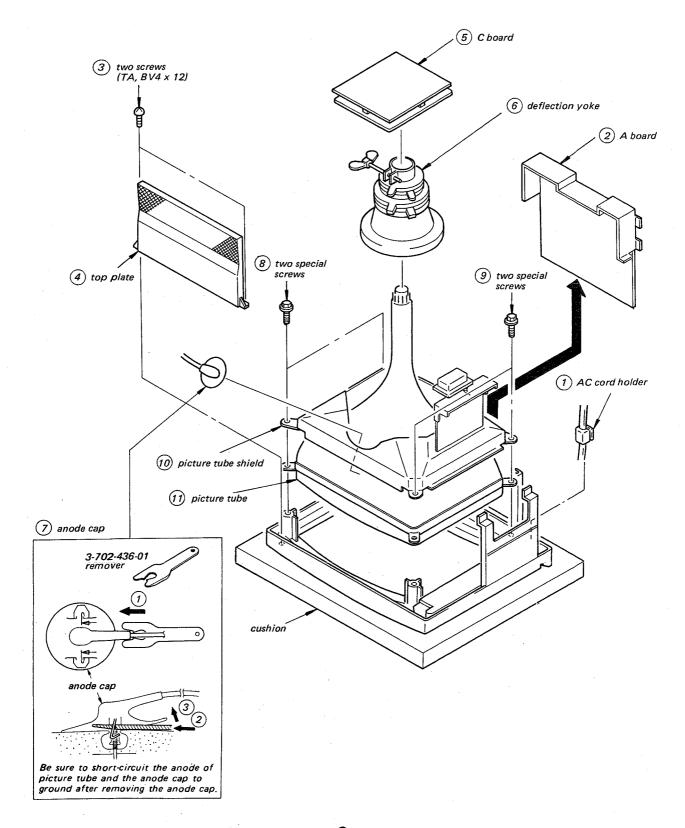
2-3. M BLOCK ASSEMBLY REMOVAL



2-4. M2 BOARD REMOVAL

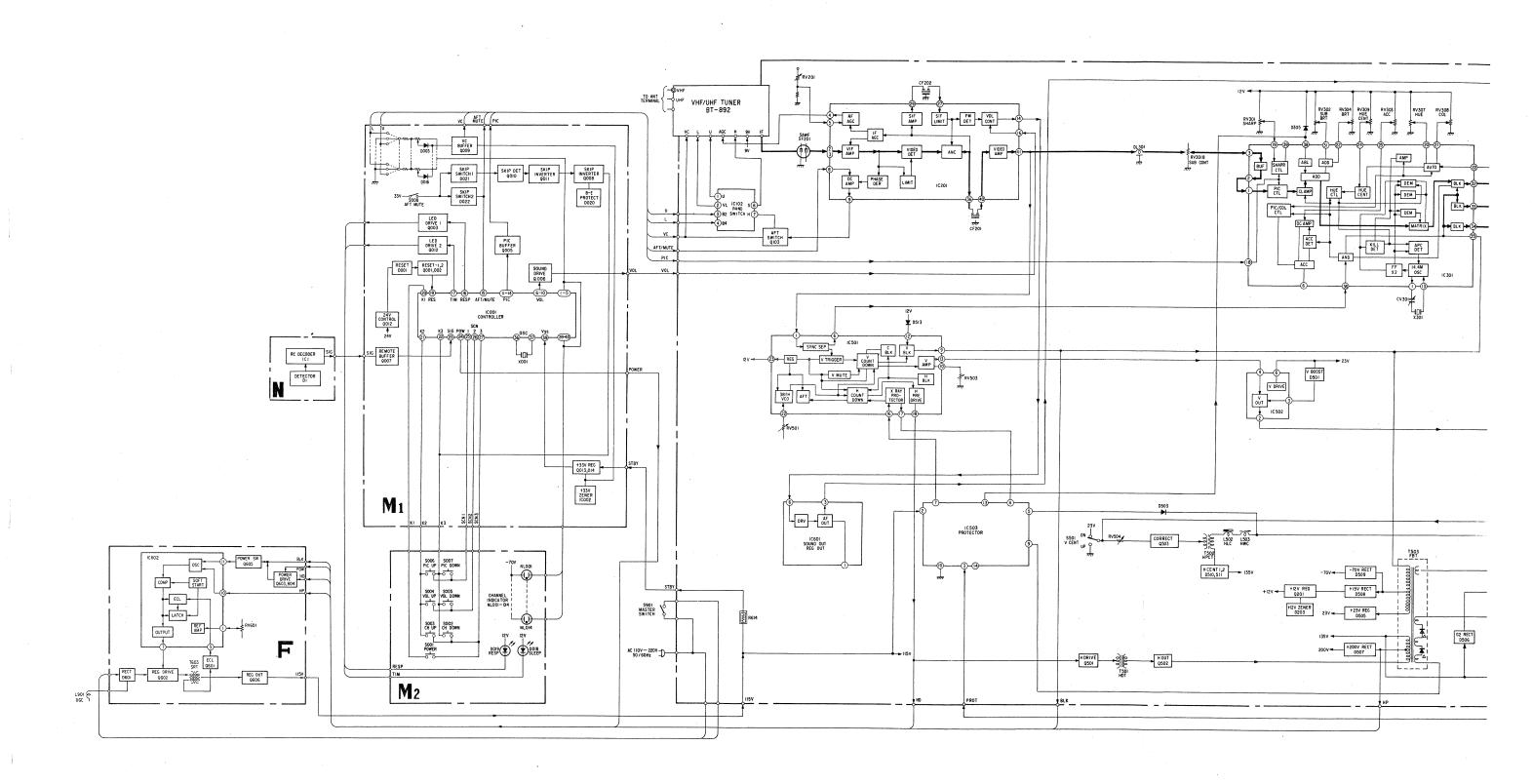


2-5. PICTURE TUBE REMOVAL

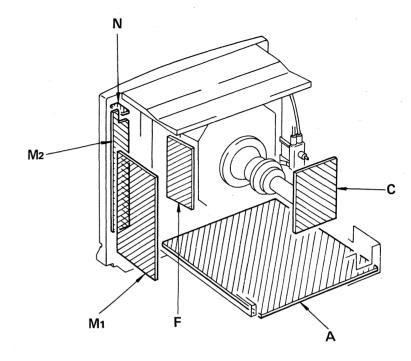


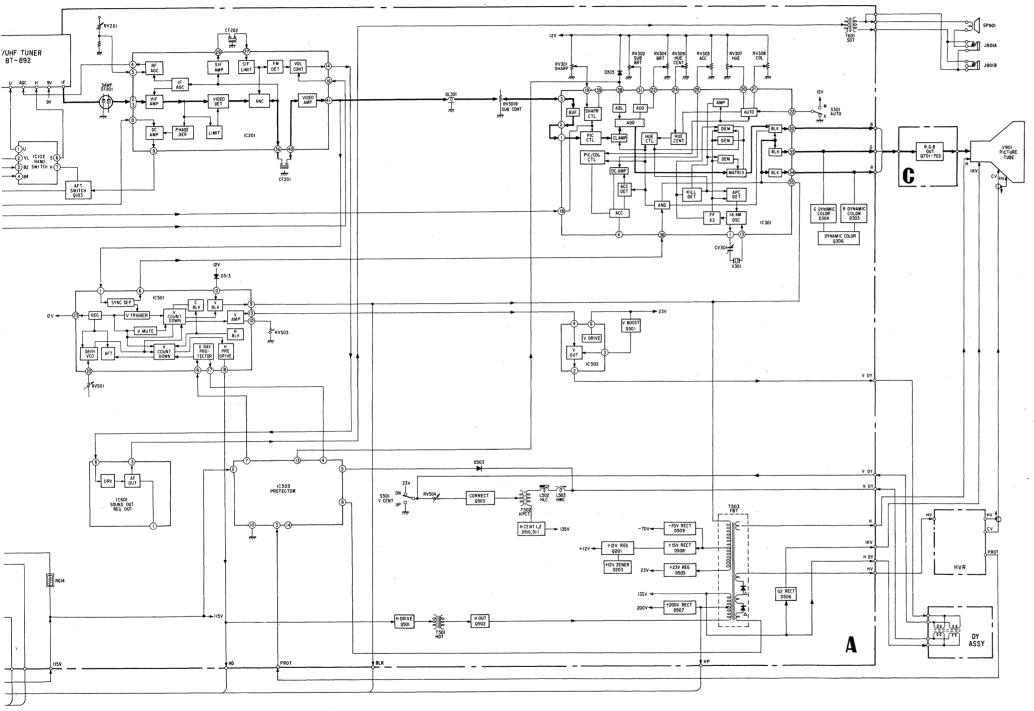
SECTION 3 DIAGRAMS AND CIRCUIT BOARDS LOCATION

3-1. BLOCK DIAGRAM



3-2. CIRCUIT BOARDS LOCATION





A | B | C | D | E | F | G | H | I | J | K | L |

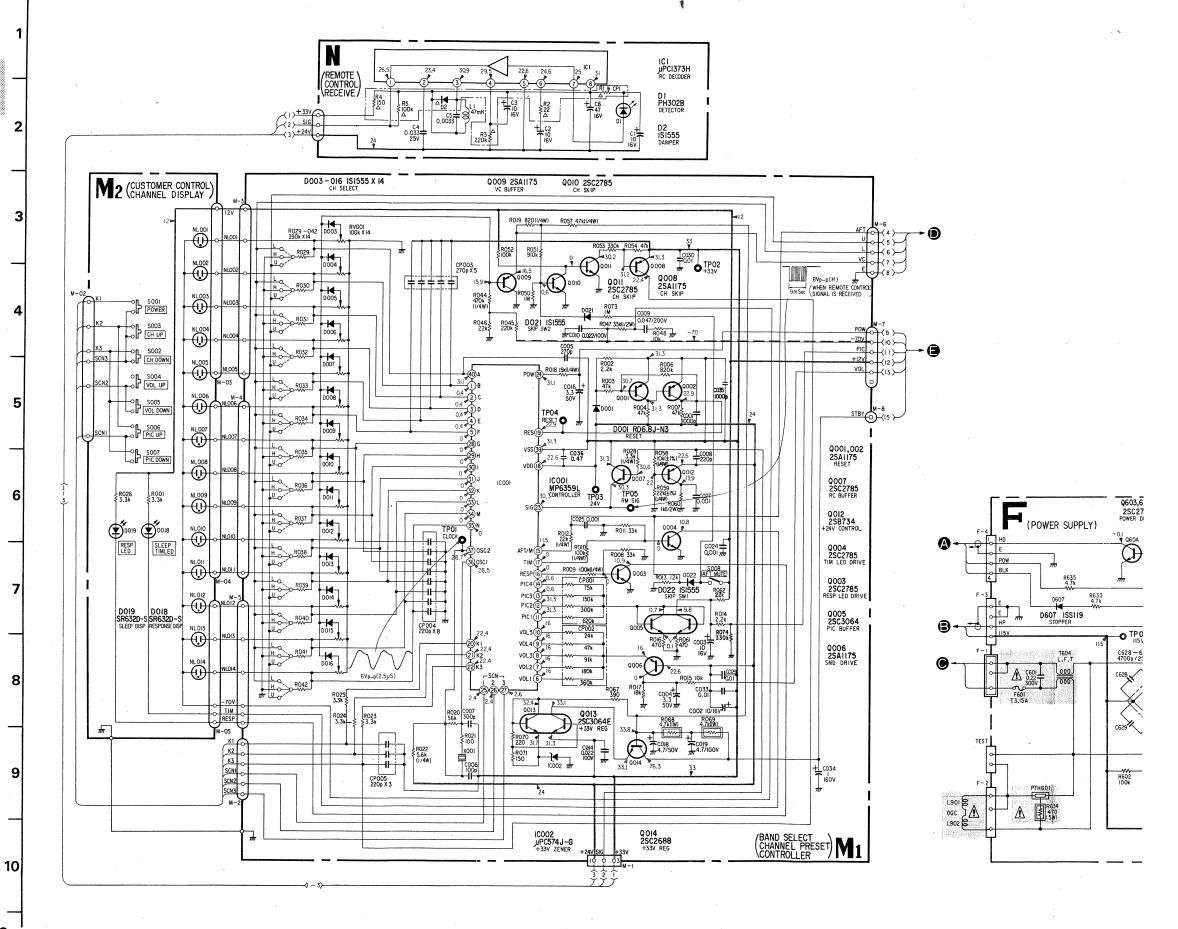
3-3. SCHEMATIC DIAGRAM

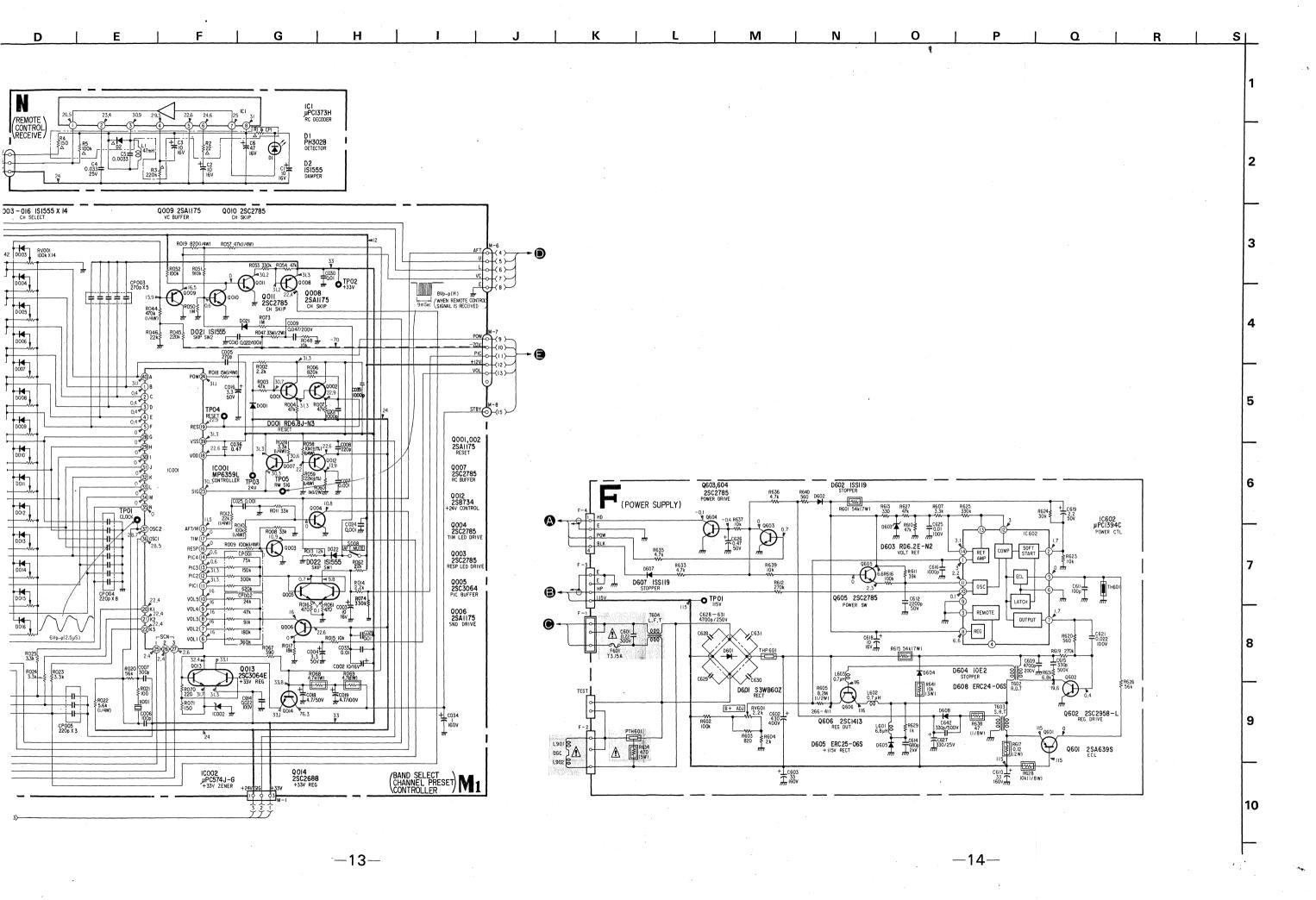
Note: The components identified by shading and mark

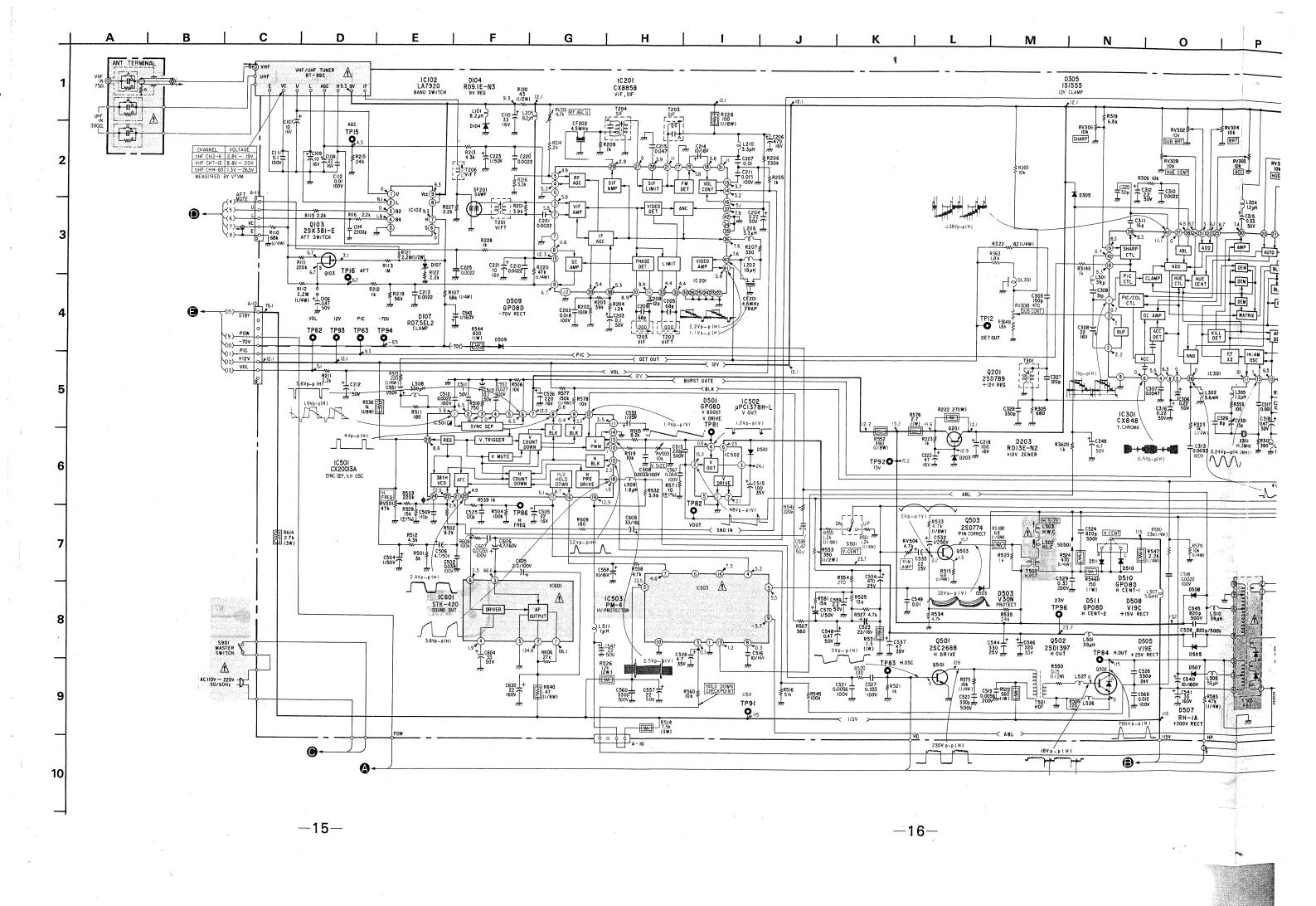
A are critical for safety. Replace only with part number specified.

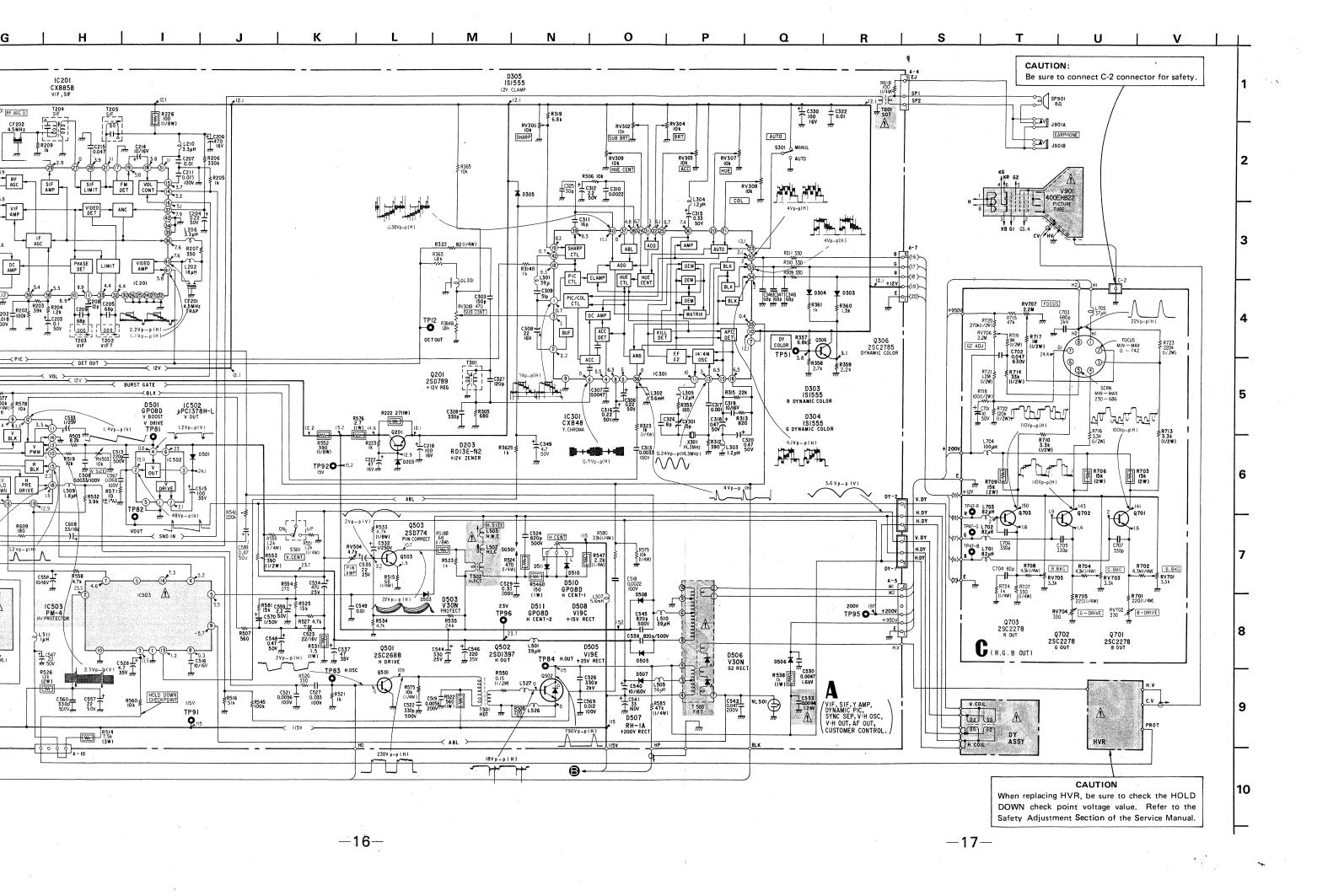
Note

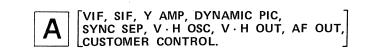
- All capacitors are in μF unless otherwise noted. pF: μμF
 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼ W unless otherwise noted. k: 1000 Ω , M: 1000 k Ω .
- nonflammable resistor.
- △ : internal component.
- _____ : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- \bullet Readings are taken with a 10 $M\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- ---: B + bus.
- ---: B-bus.
- Voltage variations may be noted due to normal production tolerances.
- Waveforms and voltage values are taken with 110V AC input.
- adjustment for repair.
- Voltages on M1, and A board are taken under conditions below.
- o CH-3 (VHF LOW) signal is received.
- VOLUME control at initial.
- o PICTURE control at initial.
 - (The first stage is the conditions when the MASTER and POWER switches set to ON.)
- The hold down check point is the cross-point of R560 and A-10 connector.
- Do not touch pin 24 of IC501 marked ♦ on A board with probe of digital multimeter. It will result in off position of the set.







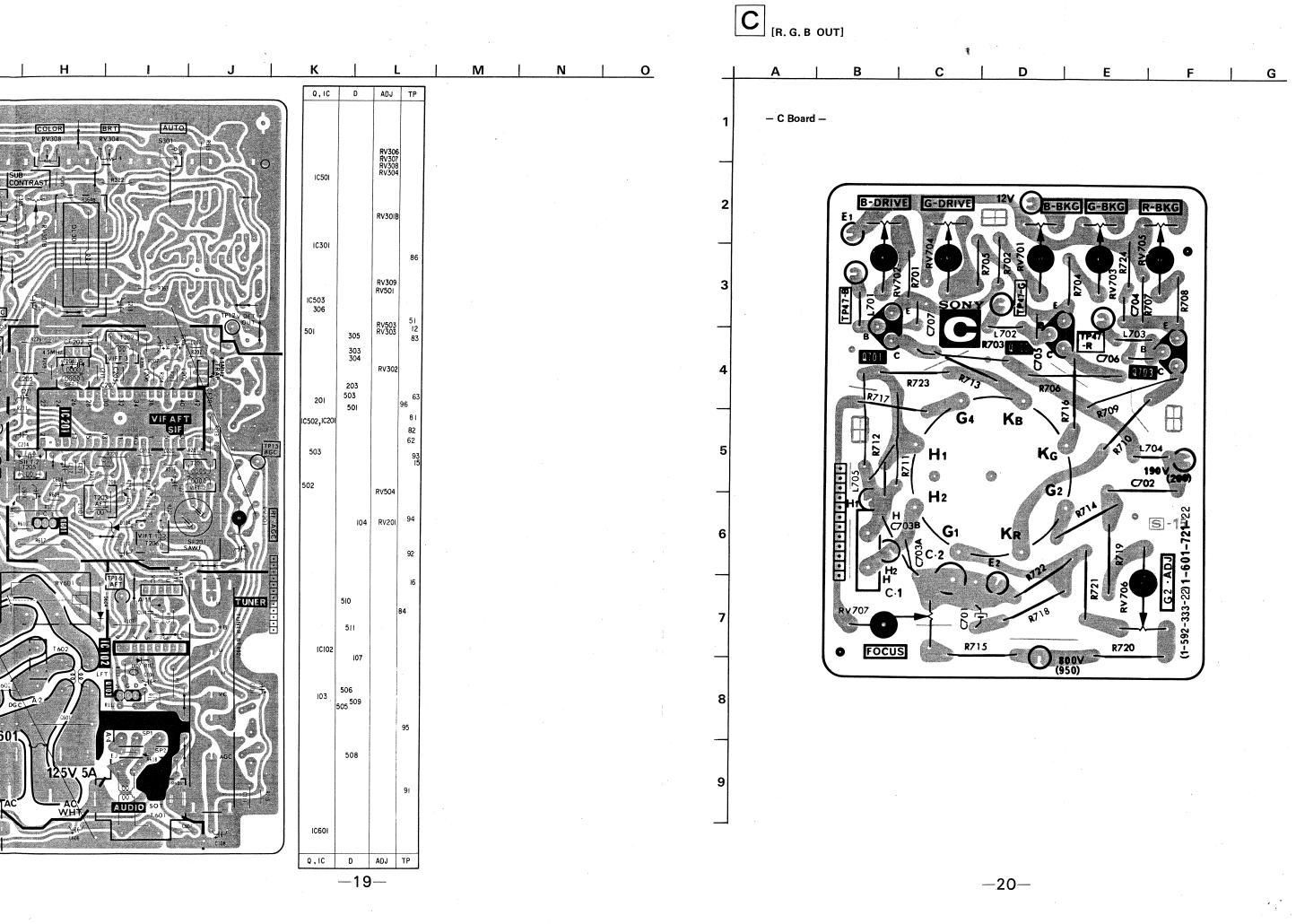




3-4. PRINTED WIRING BOARD

- Conductor Side -

Ν M - A Board -Q,IC D ADJ TP RV30IB RV309 RV501 IC503 306 RV503 RV303 305 RV302 203 503 201 IC502,IC20I 503 RV504 104 RV201 94 TUNER 10102 506 103 10601 Q,IC ADJ TP 10 -18-**-19**-





ic, Q

10

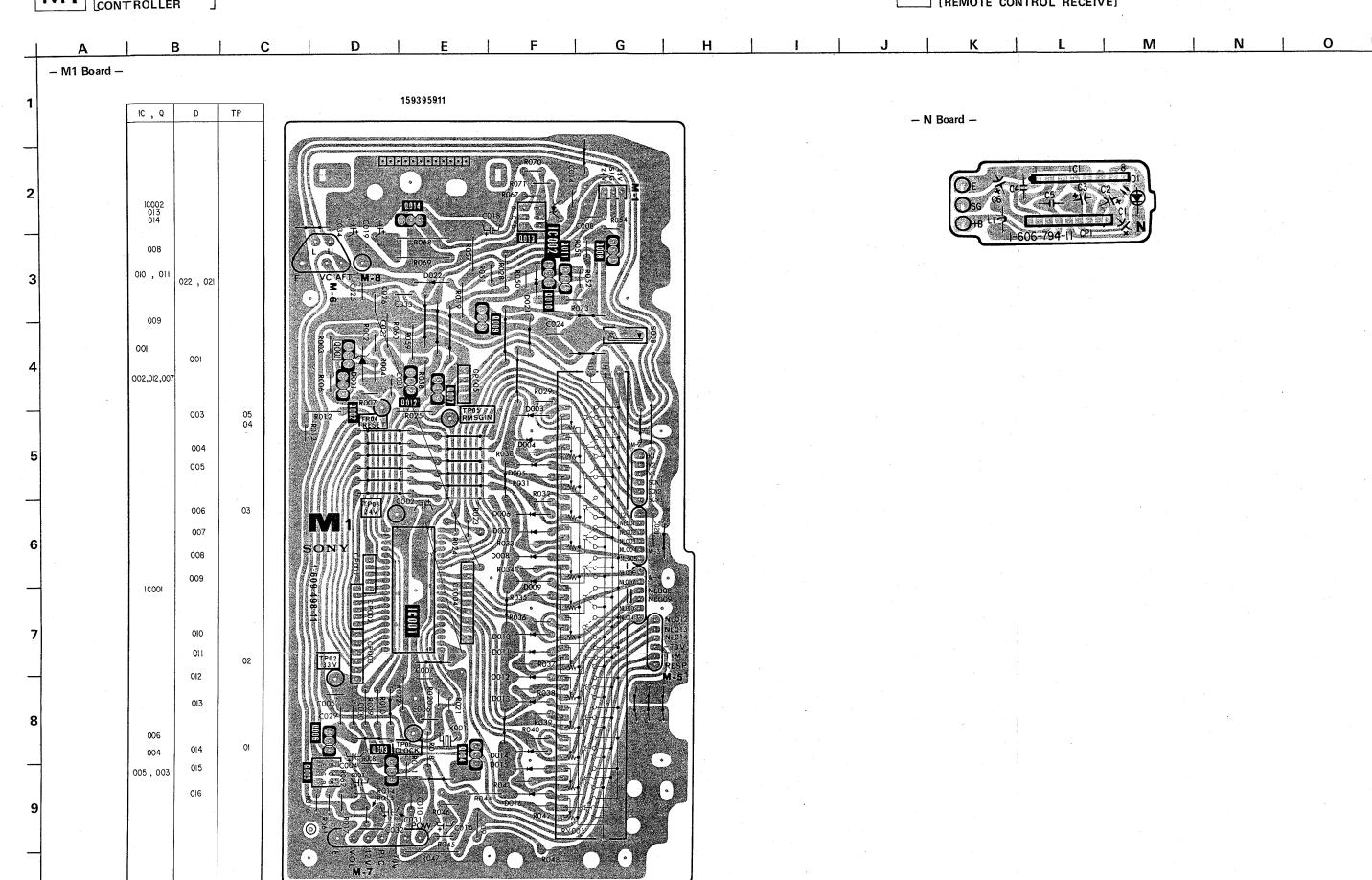
D

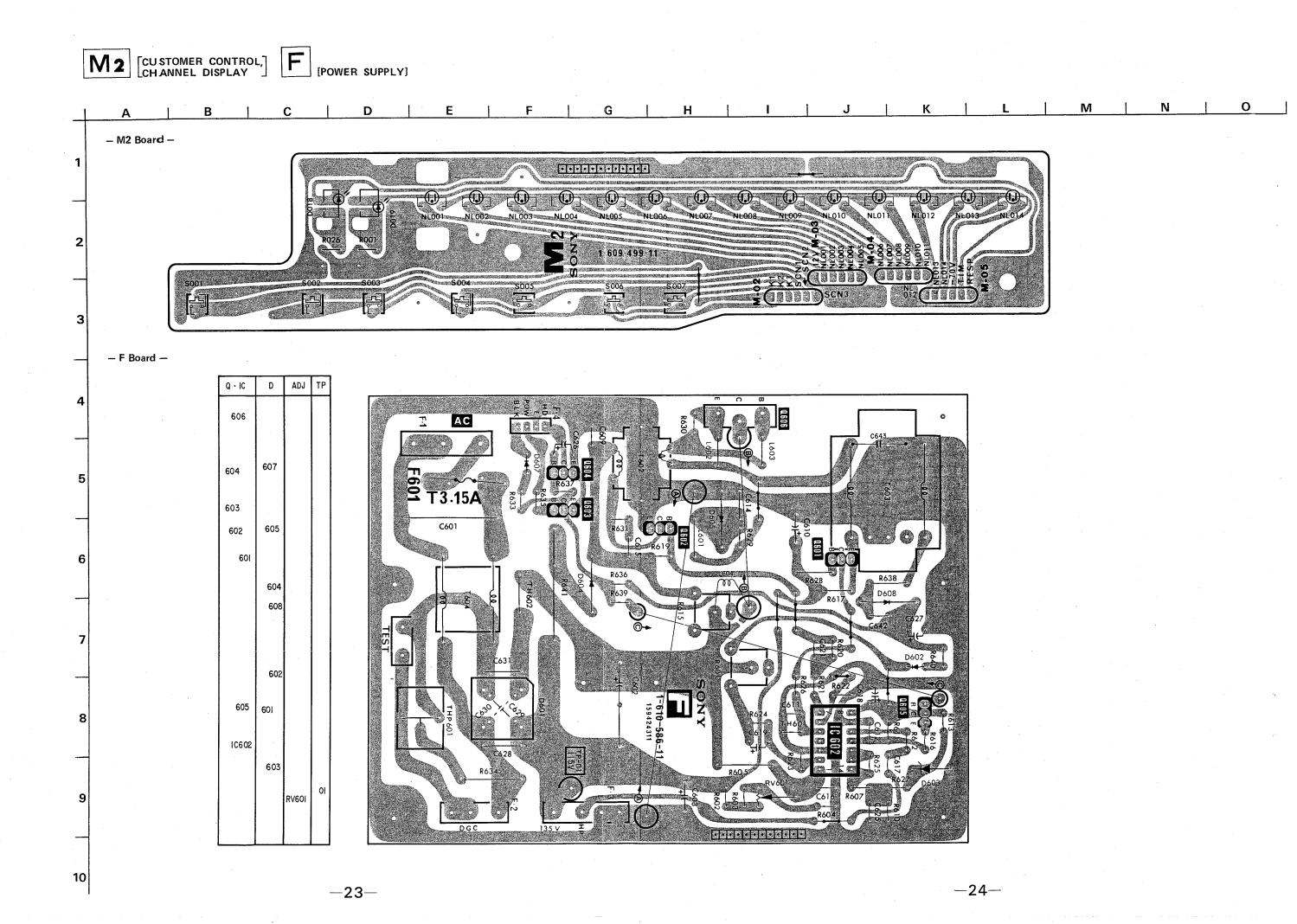
TP

-21-

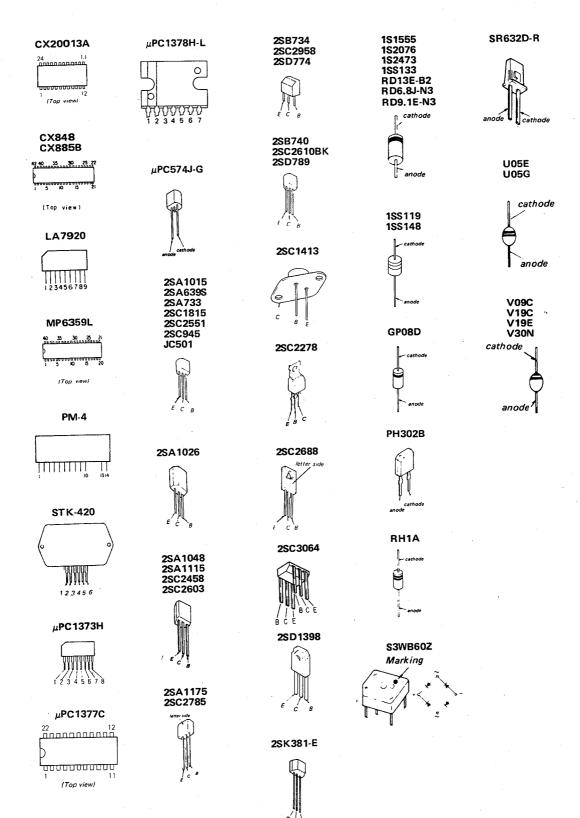


-22-



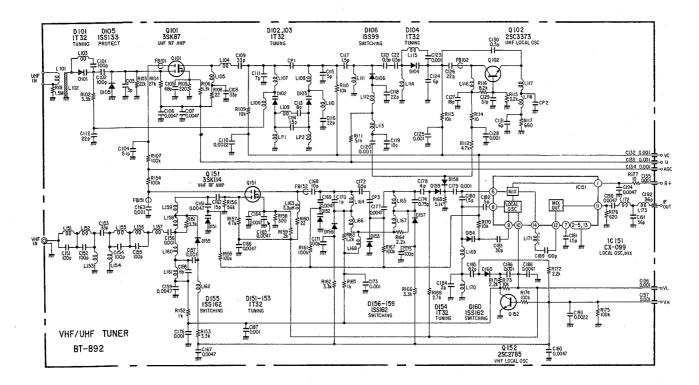


3-5. SEMICONDUCTORS



3-6. UHF/VHF TUNER SCHEMATIC DIAGRAM

BT-892



Note: Tuner reference numbers are not included in the Electrical Parts List.

SECTION 4 EXPLODED VIEWS

NOTE:

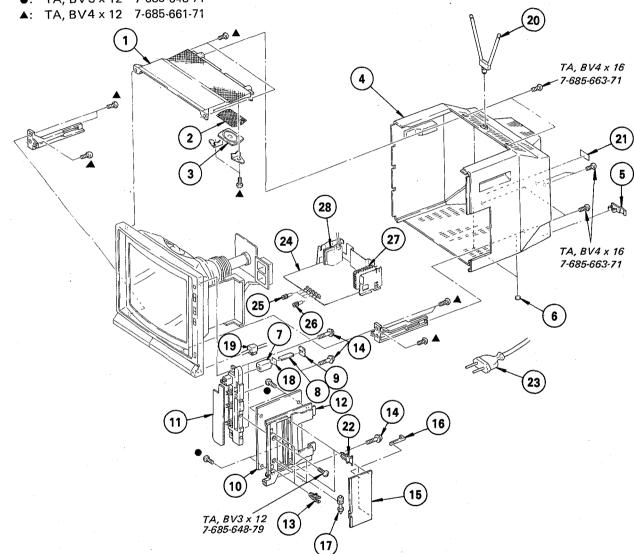
- Items with no part number and no des-
- Tems with no part number and no east cription are not stocked because they are seldom required for routine service.
 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified the components identified by shading and mark ∆ are critical for safety. Replace only with part number specified.

. Magazin attagraphyr og etter amagikk

(1) BACK COVER

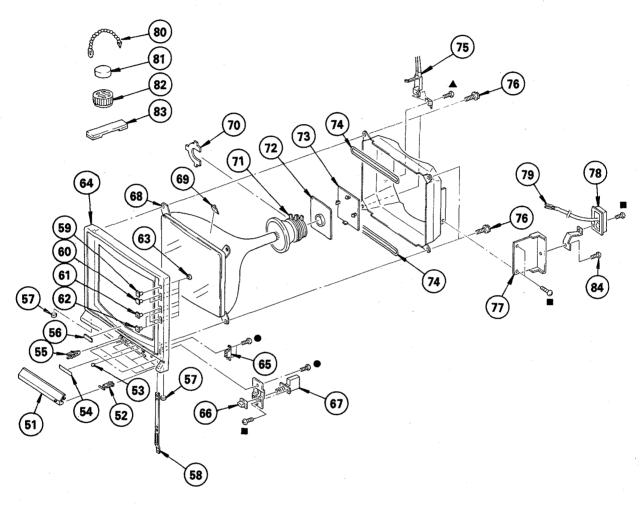
•: TA, BV3 x 12 7-685-648-71



ļ	No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
-	1 2 3 4 5 6 7 8	X-4365-606-2 4-365-610-00 1-502-882-00 X-4365-607-0 4-329-127-00 4-846-456-11 4:1-606-794-00 6:4-342-118-00 4:A-1301-466-A 6:1-609-499-00 X-4365-603-0 3-703-574-00	PLATE ASSY, TOP SHEET, DUST PROTECTION SPEAKER COVER ASSY, BACK CLAMP, CORD FOOT, FELT CASE, SHIELD (MAIN), R N BOARD LID, SHIELD CASE, R M1 BOARD, COMPLETE	2 5,6	20 21 22 23 24 25 26 27	4-331-703-00 4-365-250-00 4 :4-333-624-00 5 :4-316-102-04 1-501-276-00 6 :4-365-648-00 3-703-035-11 6 :A-1295-703-A 4-365-226-01 7 :4-463-445-00	SCREWDRIVER, PRESET FILM (N), SPECIAL HOLDER, AC CORD ANTENNA, TELESCOPIC (AN-18) LABEL, MODEL NUMBER SHAFT, LID	16
	7 .4	, 013 020 00			•.			

(2) BEZEL

TA, B√3 x 8 7-685-646-71
 TA, B√3 x 12 7-685-648-71
 TA, B√4 x 12 7-685-661-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	4-365-624-00 3-703-035-11 4-314-871-00 4:4-365-227-11 3-703-574-00 3-701-933-00 4-846-456-11 X-4365-612-00 4-365-613-00 4-365-614-00 4-365-615-00 4-365-615-00 4-365-604-2 1-507-372-00	DOOR, CONTROL SHAFT, LID CUSHION LABEL, SUB CONTROL RETAINER, DOOR EMBLEM, SONY, (MIDLE) FOOT, FELT HOLDER ASSY, LABEL PUSH BUTTON (A) PUSH BUTTON (B) PUSH BUTTON (C) PUSH BUTTON (D) STOPPER, BUTTON BEZEL ASSY JM-35 DOUBLE JACK	51-63	68 A A A A A A A A A A A A A A A A A A A	3-8-739-605-05 3-703-003-00 1-452-146-00 1-452-146-00 1-451-179-22 ::A-1330-422-A 4-335-329-00 1-425-923-62 1-228-482-24 4-307-249-00 ::A-1245-201-A 1-534-764-00 4-308-870-00 1-452-032-00 1-452-094-00	CRT 400EHB22 SPACER, DY MAGNET, BMC DEFLECTION YOKE (SY-92C) C BOARD, COMPLETE INSULATOR, C PC BOARD COIL, DEGAUSSING RESISTOR ASSY, HIGH-VOLTAGE SCREW, TAPPING (5X2O) F BOARD, COMPLETE TERMINAL BOARD ASSY, ANTENNA FEEDER WITH TERMINAL CLIP, LEAD WIRE MAGNET, DISK; 10MM & MAGNET, DISK; ROTATABLE; 15MM &	
66 67	4-333-101-00 A -1-554-538-11	SWITCH, PUSH (AC POWER)		83 84	X-4309-608-0 4-303-483-00	PERMALLOY ASSY, CONVERGENCE HEAD, WASHER, TAPPING SCREW	

The components identified by shading and mark A are critical for safety. Replace only with part number specified.



SECTION 5 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS • MF : ער, PF : דעע

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS • MMH : mH, UH : بال

Ref.No Part No.	Description			Remark	Ref.No	Part No.	Description				Remark
♦: A-1245-201-A	F BOARD, COM	IPLETE				<u>C01</u>	<u>L</u>				
♦: 1-506-348-XX ♦: 1-508-766-00 ♦: 1-508-786-00 ♦: 1-533-146-00	3P PLUG (L) 4P PLUG (M) 2P PLUG (M)	•			L601 L602 L603 L604	1-408-300-00 1-407-365-00 1-407-365-00 1-407-365-00	COIL, CHOKE COIL, CHOKE COIL, CHOKE	0.7UH 0.7UH	H		
CAI	PACITOR				Ximusiwa i		RMISTOR	E31_005_NS 7			
C601	MYLAR ELECT(BLOCK)		₹20%	300V 400V	NZ51H901	1-800-820-00 TRA	NSISTOR	ROWER			
C603 1-123-024-00 C609 1-108-688-11 C610 1-123-024-00	ELECT MYLAR ELECT	33MF 0.0047MF 33MF	10%	160V 200V 160V	Q601 Q602	8-729-163-93 8-729-195-82	TRANSISTOR 2	SC2958			
C611 1-102-973-00 C612 1-108-563-00	CERAMIC MYLAR	100PF 0.0022MF	5% 5%	50V 50V	Q603 Q604 Q605	8-729-178-54 8-729-178-54 8-729-178-54	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2785			
C614 1-102-249-00 C615 1-102-030-00 C616 1-101-001-00	CERAMIC CERAMIC CERAMIC	680PF 330PF 0.001MF	20% 10%	2K V 500V 50V	Q606	8-729-341-34 3-701-353-00 3-703-320-00	TRANSISTOR 2: SPACER, MICA BUSHING (A),	, Q606		Q606	
C618 1-123-316-51 C619 1-123-381-00 C621 1-108-381-00 C625 1-108-377-00		10MF 2.2MF 0.022MF 0.01MF	20% 20% 10% 10%	16V 50V 100V 100V	•	:4-350-806-00 RES	BRACKET, TRA	NSISTOR	, Q606		
C626 1-123-351-51 C627 1-123-335-00 C628 1-161-964-00 C629 1-161-964-00	ELECT ELECT CERAMIC CERAMIC	0.47MF 330MF 0.0047MF 0.0047MF	20% 20%	50V 25V 250V 250V	R601 R602 R603 R604 R605	1-205-687-00 1-247-879-00 1-247-829-00 1-247-838-00 1-202-667-00	CEMENTED CARBON CARBON CARBON SOLID	54K 100K 820 2K 8.2M	10% 5% 5% 5% 10%	7W 1/6W 1/6W 1/6W 1/2W	
C630 1-161-964-00 C631 1-161-964-00 C642 1-102-030-00 C643 1-102-219-00	CERAMIC CERAMIC	0.0047MF 0.0047MF 330PF 680PF	10% 20%	250V 250V 500V 1KV	R607 R608 R610 R611 R612	1-247-843-00 1-247-865-00 1-247-871-00 1-247-869-00 1-247-889-00	CARBON CARBON CARBON CARBON CARBON	3.3K 27K 47K 39K 270K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
DI	DDE				R613	1-247-819-00	CARBON	330	5%	1/6W	
0601 8-719-503-06 0602 8-719-911-19 0603 8-719-102-74 0604 8-719-200-02 0605 8-719-925-06	DIODE S3WB60 DIODE 1SS119 DIODE RD6.2E DIODE 10E2 DIODE ERC25-) I-N2			R615 R616 R617 R619	1-205-687-00 1-247-879-00 1-207-904-00 1-247-889-00	CEMENTED CARBON WIREWOUND CARBON	54K 100K 0.12 270K	10% 5% 10% 5%	7W 1/6W 2W 1/6W	F
	DIODE ISSI19 DIODE ERC24-				R620 R623 R624 R625	1-247-825-00 1-247-855-00 1-247-866-00 1-247-891-00	CARBON CARBON CARBON CARBON	560 10K 30K 330K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W	
<u>COI</u>	NECTOR				R626	1-247-873-00	CARBON	56K	5%	1/6W	
F2 5:1-508-765-00 F4 5:1-560-124-00		TOR (2.5MM)	4P		R627 R628 R629	1-247-871-00 1-246-795-00 1-247-831-00	CARBON CARBON CARBON	47K 10K 1K	5% 5% 5%	1/6W 1/8W 1/6W	
FUS	<u>E</u>				R631	1-247-851-00	CARBON	6.8K	5%	1/6W	
F601 A. 1-532-237-11 <u>IC</u>	FUSE, TIME-L	AG		!	R633 .	1-247-831-00 1-247-847-00 1-206-779-00 1-247-847-00	CARBON	4.7K	5% 5% 5%	1/6W 1/6W 5W 1/6W	F
IC602 8-759-100-75	IC UPC1394C			'	R636	1-247-847-00		4.7K	5%	1/6W	

R637

1-247-855-00 CARBON

10K 5%

1/6W



Dof.N	lo Part No.	Description				Remark	Ref.No	Part No.	Description			Remark
R638	1-246-987-11		47	5%	1/8W			:4-365-233-00		SHIFLD CASE	. VIF	
R639	1-247-855-00	CARBON	10K 560	5% 5%	1/6W 1/6W	•	_		NECTOR	0111235 01101	.,	
R640 R641	1-247-825-00 1-206-749-00		10K	5% ·	3W	F		:1-508-766-00				
	VAR	IABLE RESISTO	<u>R</u>				A5 4	:1-508-768-00	6P PLUG	TOD (0 5144)		
RV601	1-228-721-00	RES, ADJ, CE	RAMIC (CARBON	2.2K		A10 🌢	:1-560-125-00 :1-560-124-00	PLUG, CONNECT	TOR (2.5MM)	4P	
	TRA	NSFORMER						:1-560-125-00	PLUG, CONNEC			
T602	1-446-194-00	TRANSFORMER.	CHOPPE	R DRIV	/E		A12 ♣	:1-560-129-00	PLUG, CONNEC	TOR (2.5MM)	9P	
T603		TRANSFORMER,	FERRI 7	re (sri	Γ)			<u>CAP</u> .	ACITOR			
	Walnut Live To a land to the l	RMISTOR	NAMES OF STREET STREET	22 (24) 1.00 (0.00	min man a segurar		C106 C107	1-123-379-00 1-123-356-00		0.47MF 10MF	20% 20%	50V 16V
THEO:	1 1-800-945-00		_1 NV				C108 C109	1-123-330-00 1-123-356-00	ELECT	22MF 10MF	20% 20%	16V 16V
THP 6	01 1-800-686-31	THERMISTOR (POSITI	Æ)		•	C110	1-123-318-00	ELECT	33MF	20%	167
****	*****	******	*****	*****	*****	******		1-108-377-00 1-102-121-00		0.01MF 0.0022MF	10% 10%	100V 50V
	4:1-606-794-00	N BOARD					C114 C201	1-102-121-00	CERAMIC	0.0022MF	10%	50V
							C202 C203	1-108-380-00 1-123-586-00	MYLAR ELECT	0.018MF 0.1MF	10% 20%	100V 50V
	·	ACITOR					C204	1-123-447-00		0.22MF	20%	50V
C1 C2	1-123-617-00 1-123-617-00		10MF 10MF		20% 20%	16V 16V	C205 C206	1-102-525-00 1-123-323-00	ELECT	68PF 470MF	5% 20%	50V 16V
C3 C4	1-123-617-00 1-161-019-00		10MF 0.033	1F	20% 10%	16V 25V	C207 C208	1-101-004-00 1-102-510-00	CERAMIC CERAMIC	0.01MF 12PF	5%	50V 50V
C5	1-108-567-00		0.003	3MF	5%	50V	 C209	1-102-494-00	CERAMIC	68PF	5%	50V
C6	1-123-821-00	ELECT	47MF		20%	16V	C210 C211	1-102-121-00 1-108-379-00		0.0022MF 0.015MF	10% 10%	50V 100V
	DIC	DE					C212 C213	1-123-380-00 1-102-121-00		1MF 0.0022MF	20% 10%	50V 50V
D1	8-719-110-32	DIODE PH302B					C214	1-123-356-00		10MF	20%	16V
	IC						C215 C218	1-101-006-00 1-123-333-00	CERAMIC	0.047MF 100MF	20%	50V 16V
IC1	8-759-113-73	IC UPC1373H					C220 C221	1-102-121-00 1-123-356-00	CERAMIC	0.0022MF 10MF	10% 20%	50V 16V
	COI	<u>L</u>					ĺ				20%	167
L1	1-404-310-00	COIL 47MMH					C222 C223	1-123-332-00 1-123-380-00	ELECT	47MF 1MF	20%	50V
****	******	*****	*****	****	*****	*****	C225 C303	1-102-121-00 1-102-108-00	CERAMIC	0.0022MF 150PF	10% 10%	50V 50V
	♦:A-1295-703-A						C306	1-123-447-00		0.22MF	20%	50V
		******	****				C307 C308	1-102-125-00 1-123-330-00		0.0047MF 22MF	10% 20%	50V 16V
	♦:1-506-371-00 ♦:1-508-915-11						C309 C310	1-101-882-00 1-102-121-00		51PF 0.002 <i>2</i> MF	5% 10%	50V 50V
	♦:1-551-922-00 ♦:1-556-108-00	CONNECTOR AS		RE 1P			C311	1-102-952-00	CERAMIC	16PF	5%	50V
	♦:1-556-390-00				E 4P		C312 C313	1-123-381-00 1-108-371-00	ELECT MYLAR	2.2MF 0.0033MF	20% 10%	50V 100V
	♦:1-556-654-00 ♦:4-334-952-00	CONNECTOR AS CASE (C). SH		5MM) 4P)		C315 C316	1-123-286-00 1-123-447-00	ELECT ELECT	0.33MF 0.22MF	20% 20%	50V 50V
	♦:4-350-807-00 4-365-216-00	CASE (MÁÍN),	SHIEL	, VIF			C317	1-102-074-00	CERAMIC	0.001MF	10%	50V
	♦ : 4-365-232-00	LID, UPPER,	SHIELD	CASE,	VIF		C318	1-123-379-00	ELECT	0.47MF	20%	50V

The components identified by shading and mark A are critical for safety. Replace only with part number specified.



	D				0.6%	
Ref.No Part No.	Description			Remark	Ref.No Part No. Description	Remark
C319 1-121-806-00 C320 1-123-379-00		10MF 0.47MF	20%	16V 50V		50V 50V
C322 1-101-004-00		0.01MF	LOW	50V		100V
C325 1-102-962-00		30PF	5%	50V		1.2KV
C326 1-102-865-0 C	CERAMIC	8PF	0.5PF	50V	C557 1-123-357-00 ELECT 22MF 20%	50V
C327 1-102-816-00	CERAMIC	120PF	5%	50V	C558 1-123-356-00 ELECT 10MF 20%	167
C328 1-102-112-0 C		330PF	10%	50V		50V
C330 1-123-333-00 C346 1-101-888-00		100MF 68PF	20% 5%	16V 50V		500¥ 100V
C347 1-101-888-00		68PF	5%	50V		100V
C348 1-101-888 - 00	CERAMIC	68PF	5%	50V	C570 1-123-380-00 ELECT 1MF 20%	50V
C349 1-123-369-00		4.7MF	20%	50V	C604 1-123-358-00 ELECT 33MF 20%	50V
C502 1-108-384-00	MYLAR	0.039MF	10%	100V	C605 1-123-381-00 ELECT 2.2MF 20%	100V
C504 1-123-380-00		1MF	20%	50V		160V
C505 1-123-330-00	ELECT	22MF	20%	16V	C607 1-108-371-00 MYLAR 0.0033MF 10%	100V
C506. 1-123-369-00		4.7MF	20%	507		167
C508 1-108-371-00 C509 1-102-922-00		0.0033MF 110PF	10% 5%	100V 50V	C630 1-123-253-00 ELECT 22MF	160V
C510 1-123-586-00	ELECT	0.1MF	20%	50V	FILTER	
C511 1-108-367-00	MYLAR	0.0015MF	10%	100V	CF201 1-409-332-00 CERAMIC TRAP (4.5MHZ)	
C512 1-108-369-00	MYLAR	0.0022MF	10%	100V	CF201 1-409-332-00 CERAMIC TRAP (4.5MHZ) CF202 1-527-260-00 FILTER, CERAMIC (4.5MHZ)	
C513 1-102-244-00	CERAMIC	220PF	10%	500V	, , ,	
C515 1-123-345-00		100MF	20%	35V	<u>TRI MMER</u>	
C516 1-121-259-51 C518 1-108-369-00		10MF 0.0022MF	10%	16V 100V	CV301 1-141-147-XX CAP, TRIMMER	
C519 1-108-689-11 C521 1-108-374-00		0.0056MF 0.0056MF	10% 10%	200V 100V	DIODE	
C522 1-102-030-00		330PF	10%	500V	D104 8-719-102-88 DIODE RD9.1E-N3	
C523 1-123-584-00	ELECT	22MF	10%	16V	D107 8-719-101-67 DIODE RD7.5E-L2	
C524 1-102-212-00	CERAMIC	82 OPF	10%	500V	D201 8-719-911-19 DIODE 1SS119 D202 8-719-911-19 DIODE 1SS119	
C525 1-102-530-00	CERAMIC	120PF	5%	50V	D203 8-719-103-06 DIODE RD13E-N2	
C526 1-162-115-00	CERAMIC	330PF	10%	2KV		
C527 1-108-383-00		0.033MF	10%	100V	D303 8-719-911-19 DIODE 1SS119	
C528 1-131-351-00 C529 1-130-684-00		4.7MF 0.33MF	20% 5%	35V 200V	D304 8-719-911-19 DIODE ISS119 D305 8-719-911-19 DIODE ISS119	
			•	2001	D501 8-719-300-45 DIODE EM1Z	
C530 1-102-223-00		0.0047MF	20%	1.6KV	D503 8-719-903-09 DIODE V30N	
C532 1-123-003-00 C533 1-131-498-00		1MF 1MF	10%	250V 25V	D505 8-719-901-93 DIODE V19E	
C534 1-123-585-00		470MF	10%	250	D506 8-719-903-09 DIODE V30N	
C535 1-123-330-00	ELECT	22MF	20%	257	D507 8-719-300-76 DIODE RH1A	
C536 1-123-321-00	ELECT	220MF	20%	16V	D508 8-719-901-93 DIODE V19E D509 8-719-300-45 DIODE EM1Z	
C537 1-123-344-00		47MF	20%	35V	5005 0 725 000 10 5205E MILE	
C538 1-102-212-00		82 OPF	10%	500V	D510 8-719-300-45 DIODE EMIZ	
C539 1-123-379-00 C540 1-121-999-00		0.47MF 10MF	20%	50V 160V	D511 8-719-300-45 DIODE EM1Z	
					DELAY LINE	
C541 1-123-024-00		33MF	1.0%	160V	DL301 1-415-240-00 DELAY LINE	
C542 1-108-429-00 C543 1-123-252-00		0.047MF IMF	10%	200V 160V	DEPOT 1-410-540-00 DEFAI FINE	
C544 1-123-335-00		330MF	20%	25V	CONNECTOR	
C545 1-102-212-00	CERAMIC	82 OPF	10%	500V		
C546 1-123-346-00	FLFCT	220MF	20%	35V	DY1 6 :1-506-348-XX 3P PLUG (L) DY2 6 :1-506-348-XX 3P PLUG (L)	
C547 1-123-357-00	ELECT	22MF	20%	50V	,	
C548 1-123-379 - 00	ELECT	0.47MF	20%	50V		

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Ref.No	Part No.	Descriptio	<u>on</u>			Remark	Ref.No	Part No.	Description				Remark	
	<u>IC</u>						R117 R120	1-214-945-00 1-244-840-00	METAL CARBON	2.2M 43	1% 5%	1/2W 1/2W		
IC102	8-759-800-12	IC LA7920					R122	1-247-839-00	CARBON	2.2K	5%	1/6W		
IC201	8-758-852-00						R201	1-247-845-00	CARBON	3.9K	5%	1/6W		
IC301		IC CX848 IC CX20013	ıΔ				R202	1-247-879-00	CARBON	100K	5%	1/6W		
	8-759-113-78						R203	1-247-869-00	CARBON	39K	5%	1/6W		
				www.t			R204	1-247-833-00	CARBON	1.2K	5%	1/6W		
A 1C503	.1-235-223-11	PROTECTOR	MODULE PM	-4			R205	1-247-831-00	CARBON	1K	5%	1/6W		
Wireni	.8-749-942-00	16 318420					R206 R207	1-247-891-00 1-247-819-00	CARBON CARBON	330K 330	5% 5%	1/6W 1/6W		
	<u>C01</u>	<u>L</u>						÷				•		
L101	1-408-408-00	MICRO INDI	ICTOR 8.2011				R209 R211	1-247-831-00 1-247-839-00	CARBON CARBON	1K 2.2K	5% 5%	1/6W 1/6W		
L202	1-408-412-00						R212	1-247-831-00	CARBON	1K	5%	1/6W		
L205	1-408-408-00						R213	1-247-846-00	CARBON	4.3K	5%	1/6W		
L206 L210	1-408-403-00 1-408-403-00						R214	1-247-838-00	CARBON	2K	5%	1/6W		
1210	1-400-403-00	MICKO INDO	101 3. 30H				R215	1-247-864-00	CARBON	24K	5%	1/6W		
L301	1-408-416-00	MICRO INDU	CTOR 39UH				R216	1-247-843-00	CARBON	3.3K	5%	1/6W		
L302	1-408-163-00						R219	1-247-873-00	CARBON	56K	5%	1/6W		
L303 L304	1-408-398-00 1-408-398-00	MICRO INDU					R220 R222	1-246-513-00 1-213-124-00	CARBON METAL OXIDE	47K 27	5% 5%	1/4W 1W	F	
L305	1-408-398-00												•	
	. 400 240 00	MICOC INDU	10TOD 20111				R223	1-247-831-00	CARBON	1K	5%	1/6W	_	
L501	1-408-348-00 1-459-295-11	COTI FERR	TTF (HIC)				R226 R227	1-211-427-00 1-247-839-00	CARBON CARBON	100 2.2K	5% 5%	1/8W 1/6W	F	
1503 /	1-459-292-11	COIL, FERR	ITE (HWC)				R228	1-247-831-00	CARBON	1K	5%	1/6W		
L505	1-407-166-XX	MICRO INDU	CTOR 56UH				R305	1-247-827-00	CARBON	680	5%	1/6W		
L507	1-407-501-00	MICRO INDU	CTOR 5.6MM	H		•	D206	1-247-855-00	CADDON	100	Eø	1 /61/		
L508	1-408-427-00	MICRO INDII	ICTOR 330HH				R306 R309	1-247-819-00	CARBON CARBON	10K 330	5% 5%	1/6W 1/6W		
L509	1-408-400-00						R310	1-247-819-00	CARBON	330	5%	1/6W		
L510	1-408-348-00						R311	1-247-819-00	CARBON	330	5%	1/6W		
L51 1 L526	1-407-178-XX 1-407-365-00	MICRO INDU					R312	1-247-821-00	CARBON	3 90	5%	1/6W		
£320	1=407=303=00	cort, once	L 0+74011				R313	1-247-829-00	CARBON	820	5%	1/6W		
L527	1-408-349-00	COIL, CHOK	E 1UH				R315	1-247-863-00	CARBON	22K	5%	1/6W		
	NEO	N LAMP					R314B R319	1-247-831-00 1-247-851-00	CARBON CARBON	1K 6.8K	5% 5%	1/6W 1/6W		
NI EO1			1				R322	1-246-447-00	CARBON	82	5%	1/4W		
MESUI	1-519-108-XX	LACH, MEUN	•				R323	1-246-473-00	CARBON	1K	5%	1/4W		
	TRA	NSISTOR					R353	1-247-807-00	CARBON	100	5%	1/6W		
0103	8-729-600-08	TRANSISTOR	25 K 381 _F				R357 R358	1-247-851-00 1-247-841-00	CARBON CARBON	6.8K 2.7K	5% 5%	1/6W 1/6W		
Q201	8-729-177-43						R359	1-247-839-00	CARBON	2.2K	5%	1/6W		
Q306	8-729-178-54	TRANSISTOR										•		
Q501	8-729-168-82	TRANSISTOR					R360	1-247-835-00 1-247-831-00	CARBON	1.5K IK	5% 5%	1/6W		
Q502	8-729-800-35	TRANSISTOR	2301397				R361 R362B		CARBON	1K	5% 5%	1/6W 1/6W		
Q503	8-729-177-43	TRANSISTOR	2SD774				R363	1-247-837-00	CARBON	1.8K	5%	1/6W		
	RES	ISTOR					R364B	1-247-837-00	CARBON	1.8K	5%	1/6W		
	-	-	co	-~	1.46.1		R365	1-247-855-00	CARBON	10K	5% 5~	1/6W		
R107	1-247-875-00 1-246-517-00	CARBON CARBON		5% 5%	1/6W 1/4W		R501 R502	1-247-842-00 1-247-853-00	CARBON CARBON	3K 8.2K	5% 5%	1/6W 1/6W		
R110 R111	1-247-887-00	CARBON		5% 5%	1/4W 1/6W		R502	1-247-887-00	CARBON	220K	5%	1/6W		
R112	1-202-463-00	SOLID	2.2M	5%	1/4W		R504	1-247-879-00	CARBON	100K	5%	1/6W		
R113	1-247-903-00	CARBON	1M	5%	1/6W	j	R505	1-247-853-00	CARBON	8.2K	5%	1/6W		
R115	1-247-839-00	CARBON	2.2K	5%	1/6W		R505	1-247-855-00	CARBON	10K	5%	1/6W		
R116	1-247-839-00	CARBON		5%	1/6W		R507		CARBON	560	5%	1/6W		

The components identified by shading and mark \(\Delta\) are critical for safety. Replace only with part number specified.

M₁ M₂ C

Ref	No Part No.	Description				Remark	Ref.No	o Part No.	Description			Remark
R043 R048 R053 R053	3 1-247-855-00 1-247-903-00 1-247-902-00	CARBON CARBON CARBON	33K 10K 1M 910K 100K	5% 5% 5% 5% 5%	1/2W 1/6W 1/6W 1/6W 1/6W		NL012 NL013	1-519-154-00 1-519-154-00 1-519-154-00 1-519-154-00	LAMP, NEON LAMP, NEON			
R05	3 1-247-891-00	CARBON	330K	5%	1/6W			RES	SISTOR			
R05 R05 R05 R05	1 -247-871-00 7 1-246-513-00 1 -214-753-00	CARBON CARBON METAL	47K 47K 10K 22K	5% 5% 1% 1%	1/6W 1/4W 1/4W 1/4W		R001 R026	1-247-843-00 1-247-843-00 SWI		3.3K 5% 3.3K 5%		
R068 R062 R062 R063 R064	1-247-823-00 1-247-863-00 1-247-821-00	CARBON CARBON CARBON	1K 470 22K 390 4.7K	5% 5% 5% 5% 5%	1/2W 1/6W 1/6W 1/6W 1W	F	\$001 \$002 \$003 \$004 \$005	1-553-075-21 1-553-075-21 1-553-075-21	SWITCH, PUSH SWITCH, PUSH SWITCH, PUSH SWITCH, PUSH SWITCH, PUSH			
R069 R070 R071	1-247-815-00 1-247-811-00	CARBON CARBON	4.7K 220 150	5% 5% 5%	1W 1/6W 1/6W	F	\$006 \$007	1-553-075-21	SWITCH, PUSH SWITCH, PUSH			
R073 R074			1M 330K	5% 5%	1/6W 1/6W		******	*******	******	******	******	******
	<u>V</u> AF	HABLE RESISTOR	<u>.</u>				•	:A-1330-422-A	C BOARD, COM			
RVO	01 1-230-015-00	VOLUME BLOCK,	PRESE	T .	•			:1-601-721-21				
	SWI	ТСН					•	1-526-645-00 :1-556-398-00	CONNECTOR ASS	SY (2.5MM)	5P	
S008	3 1-552-437-00	SWITCH, LEVER					•	:1-556-796-00	CONNECTOR AS	SY, MINIATI	JRE 6P	
		•					!					
	CRY	STAL							ACITOR			
X001		STAL OSCILLATOR, C					C701 C702	1-123-356-00 1-129-737-00	ELECT FILM	10MF 0.047MF	20% 20%	50V 630V
		OSCILLATOR, C	ERAMIC		*****	*****	C702 C703A C704	1-123-356-00 1-129-737-00 1-102-249-00 1-102-971-00	ELECT FILM CERAMIC CERAMIC	0.047MF 680PF 82PF	20% 20% 5%	630V 2K V 50V
	. 1-527-532-00	OSCILLATOR, C	ERAMIC		****	*****	C702 C703A C704 C705	1-123-356-00 1-129-737-00 1-102-249-00 1-102-971-00 1-102-112-00	ELECT FILM CERAMIC CERAMIC CERAMIC	0.047MF 680PF 82PF 330PF	20% 20% 5% 10%	630V 2KV 50V 50V
	1-527-532-00 ***********************************	OSCILLATOR, C	ERAMIC *****		*****	*****	C702 C703A C704	1-123-356-00 1-129-737-00 1-102-249-00 1-102-971-00	ELECT FILM CERAMIC CERAMIC CERAMIC	0.047MF 680PF 82PF	20% 20% 5%	630V 2K V 50V
	1-527-532-00	OSCILLATOR, C	ERAMIC *****		*****	*****	C702 C703A C704 C705	1-123-356-00 1-129-737-00 1-102-249-00 1-102-971-00 1-102-112-00 1-102-112-00	ELECT FILM CERAMIC CERAMIC CERAMIC CERAMIC	0.047MF 680PF 82PF 330PF	20% 20% 5% 10%	630V 2K.V 50V 50V
	1-527-532-00 ********* •: 1-609-499-00 •: 4-338-114-00	OSCILLATOR, C	ERAMIC *****		****	*****	C702 C703A C704 C705 C706 C707	1-123-356-00 1-129-737-00 1-102-249-00 1-102-971-00 1-102-112-00 1-102-112-00 1-102-112-00 1-407-704-00	ELECT FILM CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC GERAMIC MICRO INDUCTO	0.047MF 680PF 82PF 330PF 330PF 330PF	20% 20% 5% 10%	630V 2K.V 50V 50V
	1-527-532-00 *********** ♦ : 1-609-499-00 ♦ : 4-338-114-00 ♦ : 4-365-616-00 <u>D10</u> 8-719-106-34	OSCILLATOR, C	ERAMIC *****		****	*****	C702 C703A C704 C705 C706 C707	1-123-356-00 1-129-737-00 1-102-249-00 1-102-971-00 1-102-112-00 1-102-112-00	ELECT FILM CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO	0.047MF 680PF 82PF 330PF 330PF 330PF 330PF	20% 20% 5% 10%	630V 2K.V 50V 50V
***** D018	1-527-532-00 ***************	OSCILLATOR, C	ERAMIC *****		*****	*****	C702 C703A C704 C705 C706 C707	1-123-356-00 1-129-737-00 1-102-249-00 1-102-112-00 1-102-112-00 1-102-112-00 1-407-704-00 1-407-704-00 1-407-705-00 1-421-401-00	ELECT FILM CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO MICRO INDUCTO COIL, FERRITE	0.047MF 680PF 82PF 330PF 330PF 330PF 330PF	20% 20% 5% 10%	630V 2K.V 50V 50V
DO18 DO19 NLOG	1-527-532-00 **********	OSCILLATOR, C M2 BOARD ******* HOLDER, NEON HOLDER, LED DE DIODE SR632D DIODE SR632D N LAMP LAMP, NEON LAMP, NEON LAMP, NEON LAMP, NEON	ERAMIC *****		*****	*****	C702 C703A C704 C705 C706 C707 L701 L702 L702 L703 L704 L705	1-123-356-00 1-129-737-00 1-102-249-00 1-102-112-00 1-102-112-00 1-102-112-00 1-407-704-00 1-407-704-00 1-407-705-00 1-421-401-00 TRA 8-729-322-78 8-729-322-78	ELECT FILM CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC MICRO INDUCTO MICRO	0.047MF 680PF 82PF 330PF 330PF 330PF 330PF 0R 82UH 0R 82UH 0R 82UH 0R 100UH 1 CHOKE	20% 20% 5% 10%	630V 2K.V 50V 50V
D018 D019 NL00	1-527-532-00 *********** 4 : 1-609-499-00 5 : 4-338-114-00 6 : 4-365-616-00 D10 8-719-106-34 8-719-106-34 NEO 1 1-519-154-00 2 1-519-154-00 3 1-519-154-00 4 1-519-154-00	OSCILLATOR, C	ERAMIC *****		****	*****	C702 C703A C704 C705 C706 C707 L701 L701 L702 L703 L704 L705	1-123-356-00 1-129-737-00 1-102-249-00 1-102-971-00 1-102-112-00 1-102-112-00 1-102-112-00 1-407-704-00 1-407-704-00 1-407-704-00 1-407-704-00 1-407-704-00 1-407-705-00 1-421-401-00 TRAI 8-729-322-78 8-729-322-78 8-729-322-78	ELECT FILM CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC MICRO INDUCTO TERRITE NSISTOR TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	0.047MF 680PF 82PF 330PF 330PF 330PF 330PF 0R 82UH 0R 82UH 0R 82UH 0R 100UH 1 CHOKE	20% 20% 5% 10%	630V 2K.V 50V 50V
DO18 DO19 NLOC NLOC NLOC NLOC	1-527-532-00 ***********	OSCILLATOR, C	ERAMIC *****		*****	*****	C702 C703A C704 C705 C706 C707 L701 L702 L702 L703 L704 L705	1-123-356-00 1-129-737-00 1-102-249-00 1-102-971-00 1-102-112-00 1-102-112-00 1-102-112-00 1-407-704-00 1-407-704-00 1-407-704-00 1-407-704-00 1-407-704-00 1-407-705-00 1-421-401-00 TRAI 8-729-322-78 8-729-322-78 8-729-322-78	ELECT FILM CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC MICRO INDUCTO MICRO	0.047MF 680PF 82PF 330PF 330PF 330PF 330PF 0R 82UH 0R 82UH 0R 82UH 0R 100UH 1 CHOKE	20% 20% 5% 10%	630V 2K V 50V 50V



Ref.No Part No.	Description			Remark
R706 1-206-692-00 R707 1-246-461-00 R708 1-246-488-00 R709 1-206-692-00 R710 1-202-824-00	METAL OXIDE 15K CARBON 330 CARBON 4.3K METAL OXIDE 50LID 3.3K	5% 5% 5% 5%	2W 1/4W 1/4W 2W 1/2W	F
R713 1-202-82 4-00 R714 1-202-609-00 R715 1-202-613-00 R716 1-202-82 4-00 R717 1-202-719-00	SOLID 3.3K SOLID 33K SOLID 47K SOLID 3.3K SOLID 1M	10%	1/2W 1/2W 1/2W 1/2W 1/2W	
R718 1-202-549-00 R719 1-202-719-00 R720 1-202-631-00 R721 1-202-720-00 R722 1-202-623-00	SOLID 100 SOLID 1M SOLID 270K SOLID 1.2M SOLID 120K	10% 10% 10%	1/2W 1/2W 1/2W 1/2W 1/2W	
R723 1-202-629-00 R724 1-246-473-00	SOLID 220K CARBON 1K	5%	1/2W 1/4W	
<u>V</u> AR	IABLE RESISTOR			
RV701 1-226-209-00 RV702 1-224-640-XX RV703 1-226-209-00 RV704 1-224-640-XX RV705 1-226-209-00	RES, ADJ, CARBON 3 RES, ADJ, CARBON 3 RES, ADJ, CARBON 3 RES, ADJ, CARBON 3 RES, ADJ, CARBON 3	30 •3K 30		
RV706 1-226-063-00 RV707 1-226-114-00	RES, ADJ, CARBON 2 RES, ADJ, METAL GL		M	
******	******	*****	*****	******

MISCELLANEOUS

Δ.1-228-482-24 RESISTOR ASSY, HIGH-VOLTA Œ.
Δ.1-451-179-22 DEFLECTION YOKE (SY-92C)
1-452-032-00 MAGNET, DISK; 10MM β
1-452-094-00 MAGNET, DISK, ROTATABLE; 15MM β
1-452-146-00 MAGNET, BMC ↑.1-463-445-00 TUNER, ET (8T-892)
1-501-276-00 ANTENNA, TELESCOPIC (AN-18)
1-534-764-00 FEEDER WITH TERMINAL
↑.1-536-592-41 TERMINAL BOARD ASSY, ANTENNA
•:1-551-792-51 CONNECTOR ASSY (L) 2P

4:1-551-854-00 CONNECTOR ASSY 1P

1.1-551-89-41 CONNECTOR ASSY 1P

1.1-556-198-11 CORD, POWER

1.1-556-339-00 CONNECTOR ASSY (2.5MM) 3P

1.1-556-652-00 CONNECTOR ASSY (2.5MM) 4P

1.1-556-754-00 CONNECTOR ASSY, MINIATURE 3P

♦:1-556-754-00

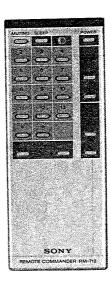
J901A 1-507-372-00 JM-35 DOUBLE JACK J901A 1-507-372-00 JM-35 DOUBLE JACK J901B 1-507-372-00 JM-35 DOUBLE JACK L901 A.1-425-923-62 COIL, DEGAUSSING L902 A.1-425-923-62 COIL, DEGAUSSING S901 A.1-554-538-11 SWITCH, PUSH (AC POWER)

SP901 1-502-882-00 SPEAKER T503 A, 1-439-250-21 TRANSFORMER ASSY, FLYBACK

Ref.No Part No. Description Remark V901 A.8-739-605-05 CRT 400EHB22 ACCESSORIES AND PACKING MATERIALS Part No. Description Remark A-1470-614-A COMMANDER ASSY (RM-712)
1-504-034-32 EARPHONE, MACNETIC (ME-20B)
1-506-409-00 ADAPTOR, CONVERSION
4-314-534-00 BAG, POLYETHYLENE
4-354-607-11 SHEET CHANNEL LABEL (B), INDICATOR
CUSION (UPPER) ASSY
CSHION (LOWER) ASSY
LABEL (SPANISH), INSTRUCTION 4-365-238-00 4-365-635-00 4-365-636-00 4-365-642-00 4-365-647-00 INDIVIDUAL CARTON 4-493-776-41 MANUAL, INSTRUCTION

> The components identified by shading and mark <u>A</u> are critical for safety. Replace only with part number specified.

SERVICE MANUAL



May, 1983

SPECIFICATIONS

Remote control system Infrared control

Power requirements 3 V dc

Battery size AA × 2

(IEC Battery Designation R6) Approx. $60 \times 20 \times 150$ mm (w/h/d)

Dimensions

 $(2^{3}/8 \times {}^{7}/8 \times 6 \text{ inches})$

Weight Approx. 130 g (4.6 oz)

incl. batteries

Accessories supplied Battery size AA (2 pcs.)

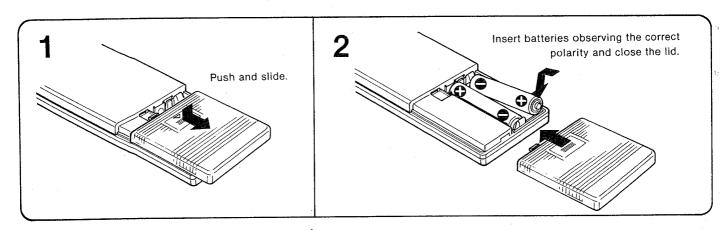
Channel number segments (1 set)

Design and specifications subject to change without notice.

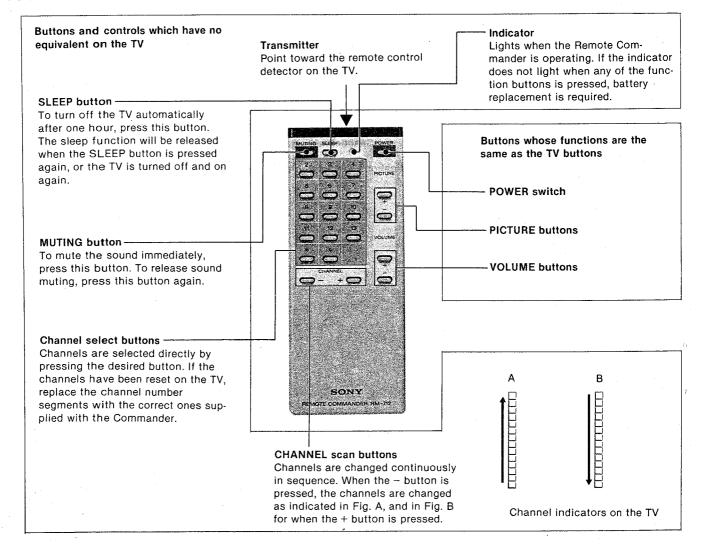


1. BATTERY INSTALLATION

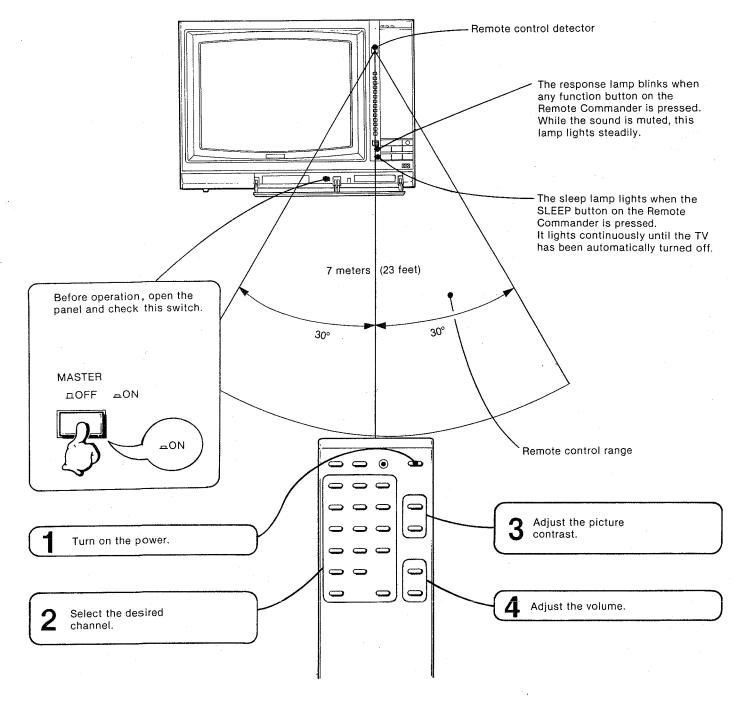
The Sony RM-712 Remote Commander operates on two supplied AA batteries (IEC designation R6).



2. FUNCTION OF BUTTONS ON THE REMOTE COMMANDER

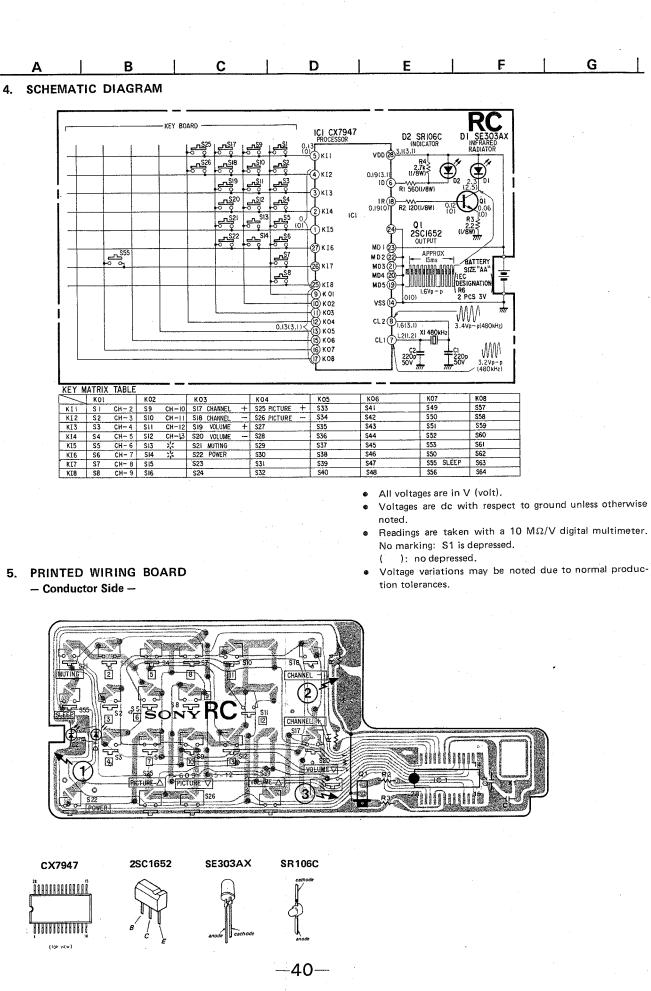


3. OPERATION OF THE REMOTE COMMANDER



Notes on the Remote Commander

- In normal operation, battery life is up to half a year. When the batteries are exhausted, the Remote Commander will not operate the TV properly. In this case, replace the batteries with new ones.
- When the Commander is not used for a long period of time, remove the batteries to avoid damage from possible battery leakage.
- Keep the Commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the Commander case when replacing batteries.
- The RM-712 Remote Commander may be used only with those Sony color TV models indicated in the operating instructions.

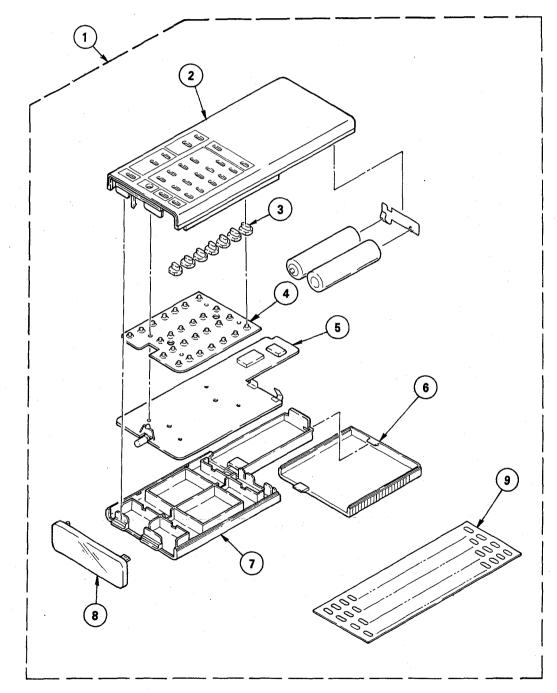


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6. EXPLODED VIEW

- NOTE:
 Items with no part number and no description are not stocked because they are seldom required for routine service.
 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



No.	Part No.	Description	<u>Remark</u>	No.	Part No.	Description	Remark
1	A-1470-614-A	COMMANDER ASSY (RM-712)	2,3,4,5 6,7,8	5	♦:1-609-385-00 4-350-931-00	RC BOARD COVER, BATTERY	
2		CASE ASSY, UPPER KEY TOP, TUNING	0,7,0	7 8	4-350-933-00		•
4		SHEET, RUBBER		9	4-354-607-11	SHEET, CHANNEL	

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7. ELECTRICAL PARTS LIST

Items marked " 6 " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

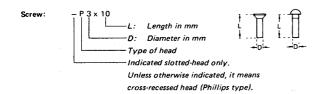
RESISTORS CAPACITORS · All resistors are in ohms ۰ MF : س۶, PF يرب • F : nonflammable

Description Remark Ref.No Part No. 4:1-609-385-00 RC BOARD 4-350-923-00 TERMINAL (A), BATTERY 4-350-924-00 TERMINAL (B), BATTERY CAPACITOR 1-102-110-00 CERAMIC 1-102-110-00 CERAMIC 220PF 220PF 10% 10% DIODE 8-719-193-03 DIODE SE303AX 8-719-100-06 DIODE SR106C IC1 8-759-902-22 IC CX7 947 TRANSISTOR 8-729-965-22 TRANSISTOR 2SC1652 RESISTOR 560 5% 120 5% 2.2 5% 2.7K 5% 1-247-825-00 CARBON 1/6W 1/6W 1/6W 1-247-809-00 CARBON 1-247-767-00 CARBON 1-247-841-00 CARBON

1-527-476-00 OSCILLATOR, CERAMIC

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HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
	.1	SCREWS	
Р	€	pan-head screw	binding-head (B) screw for replacement
PWH	€13	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	₩3	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	(pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	€	round-head screw	binding-head (B) screw for replacement
К	Þ	flat-countersunk-head screw	
RK .	E	oval-countersunk-head screw	-
В	→	binding-head screw	
Т	Þ	truss-head screw	binding-head (B) screw for replacement
F	₽⊃	flat-fillister-head screw	
RF 🕞		fillister-head screw	
B\/	_	brazier-head screw	7

Nut, Washer, Retaining ring:	٠
N 3	usable screw or shaft
LDiameter of the Reference de	signation

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCRE	ws
TA		self-tapping screw	ex: TA, P 3 x 10
PTP	=	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement
PTPWH	⊕	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
	l	SET SCREWS	
SC	-=-	set screw	
SC	-0=3-	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N	-[]()-()-()	nut	
	,	WASHERS	
w	0	flat washer	
SW	-⊚- }	spring washer	
LW	0	internal-tooth lock washer	ex: LW3, internal
LW	*	external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E retaining ring			
G	8	grip-type retaining ring	